Nitrotel Manufacturing
Low Voltage Products & Fiber Optic

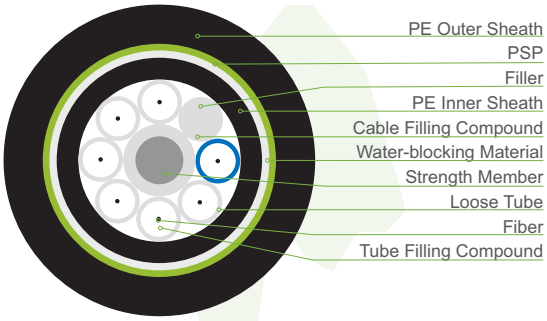
Part No.
NT-GYTY53-XXS

PRODUCT DATA SHEET

Stranded Loose Tube Cable with Steel Tape (Double Sheaths) (GYTY53)

Introduction

In the Nitrotel GYTY53 cable, single-mode/multimode fibers are positioned in the loose tubes, which are made of high modulus plastic materials, while the loose tubes strand together around metallic central strength member into a compact and circular cable core. For certain high fibre count cables, the strength member would be covered with polyethylene (PE). The water-blocking materials are distributed into interstices of the cable core . The cable core is covered with a PE inner sheath, and the PSP is longitudinally applied around the cable core before a HDPE outer sheath is extruded over it.



Fiber color code

1	2	3	4	5	6	7	8	9	10	11	12
Blue	Orange	Green	Brown	Gray	White	Red	Black	Yellow	Violet	Pink	Aqua

Fiber color in each tube starts from No. 1 Blue.

Color codes for loose tube & filler rod

1	2	3	4	5	6	7	8	9	10	11	12
Blue	Orange	Green	Brown	Gray	White	Red	Black	Yellow	Violet	Pink	Aqua

Tube color in each layer starts from No. 1 Blue. If there are fillers, the color is nature.

Order Information and Characteristics of Optical Cables

Cable Type (increased by 2 fibers)	Fiber Count	Tube & Fillers	Max. No. of Fibers in each Tube	Cable Diameter mm	Cable Weight kg/km	Tensile Strength Long/ShortTerm N	Crush Resistance Long/ShortTerm N/100 mm
NT-GYTY53-2~36Xn	2~36	6	6	12.6	184	1000/3000	1000/3000
NT-GYTY53-38~72Xn	38~72	6	12	14.0	216	1000/3000	1000/3000
NT-GYTY53-74~96Xn	74~96	8	12	15.7	260	1000/3000	1000/3000
NT-GYTY53-98~120Xn	98~120	10	12	17.4	301	1000/3000	1000/3000
NT-GYTY53-122~144Xn	122~144	12	12	19.0	354	1000/3000	1000/3000
NT-GYTY53-146~216Xn	146~216	18	12	19.0	350	1000/3000	1000/3000

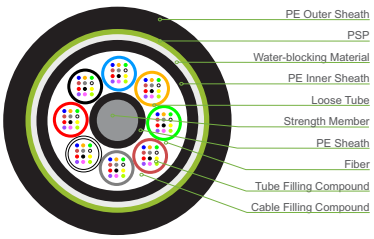
Note:
1.Suffix Xn denotes fiber type and see details in Nitrotel cable coding illustration.
2.The color arrangement of fiber and tube is specified in color identification table.
3.The normal PE sheath thickness is 1.0mm, and PE outer sheath thickness is 2.0mm.

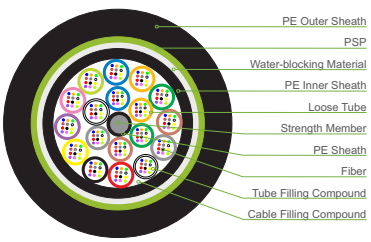
Temperature requirement	Operation	-40˚C~+70˚C
	Installation	-10˚C~+70˚C
	Storage/transportation	-40˚C~+70˚C
Temperature cycling test	conform to IEC 794-1-F1	
Bending Radius	Static	10 times of outer diameter
	Dynamic	20 times of outer diameter

Characteristic

- Excellent mechanical and temperature performance guaranteed by the accurate excess fiber length
- Critical protection to fibers, based on the excellent hydrolysis resistance and strength performance of tube material and special filling compound filled in the tube
- Excellent crush resistance and flexibility
- The following measures are taken to ensure the water blocking performance of the cable:
  - Single steel wire used as the central strength member
  - Special water-blocking filling compound in the loose tube
  - 100% cable core filling
  - PSP moisture barrier
  - Water-blocking material
- Application: Duct/Aeria

Fig 2 and 3: High Fiber Count Cable





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